THIRD-ORDER LEVELING
NATIONAL GEODETIC VERTICAL BATUM OF 1929

38-082-32 LOUISA QUADRANGLE 160 KY.-42 W.VA. N3800-48230/15 DIAGRAM NJ 17-4 HUTHT INGTON

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

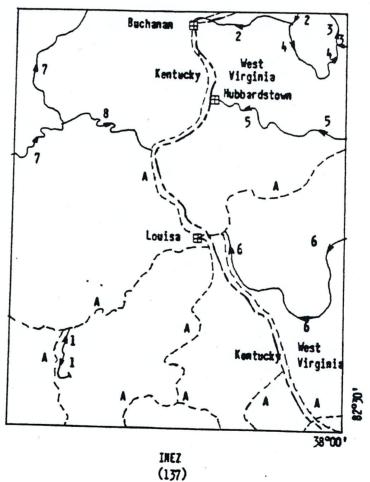
Boyd, Lawrence Counties, Ky.; Wayne Counties, W.Va.

Final adjustment of 1973

Edition of 1/21/77

PR: LFB/mna

CEREDO (177 KY.-57 W.VA.-2 OMIO)



WEBBYILLE (161)

NGS (USCRES) YERTICAL CONTROL DATA

A. Quadrangle 380823

WAYNE (41)

INDEX OF PERMANENT MARKS

MARK (USGS)	PAGE NO.	MARK (R262)	PAGE NO.
574	3	47 RHP 1959 907	
579	3	48 RNP 1959	5
589	3	49 RHP 1959 582	5
595	3	50 RHP 1959 547	5
554 K 1900	3	53 RHP 1959 700	Ś
572 K 1900	3	54 RHP 1959 650	6
584 K 1900	3	55 RHP 1959 644	6
591 K 1900	3	56 RHP 1959 735	6
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45 RHP 1959 611	į.	S 84 1935	Ŕ
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LOUISA QUADRANGLE Books 8086-87, A9639	160 KY_12 H_VA_	38-082-32 3
ISOLATED BENCH MARKS (By M. N. Morrill	1, 1900; Books 8086-87, S. R. Archer, 1915; Book A9639)	Feet
Buchanan; 150 ft S. of; overhead Ry. b standard tablet stamped #554 K 1900#	bridge (B.S. 189); in top stone at E. end of M. pier; " (Reported disturbed, 1953)	554.232
Gallup; G. C. McClure's house; in ston	ne step; standard tablet stamped "591 K 1900"	589-317
Fullers; 300 ft N. of station; 5 ft W. sandstone ledge; standard tablet sta	of RR. at E. edge of hwy.; 30 ft N. of white house; in amped 7572 K 1900**	570.875
Louisa County Court House; N. face; W. (Reported destroyed, 1971) FOU	side; in foundation; standard tablet stamped "584 K 1900" ND,1981	582.420
	75 ft S. of center of rd.; 135 ft from SW. corner of Green Valley and rock; standard tablet stamped "598 K 1900"	596.857
Saltpetre, 1.9 mi NW. of; 250 ft N. of in sandstone rock; standard tablet s	F RR.; 500 ft NWL of milepost MANG 32"; in Jerry Bartram's field; stamped "579"	578.133
Yorkville; 600 ft £. of post office; i standard tablet stamped "589"	in E. end of S. abutment of RR. bridge 758 over Lost Creek;	588.666
Glenhayes, 2.2 mi NWL of; 50 ft NL of stamped W595W (Reported not found, 1	milepost MIAUG 27%; in sandstone boulder; standard tablet 1960)	594.074
	It N. of RR.; om S. side of wagon rd.; in 20- by 15- by 8 ft; stamped "574" (Reported mot found, 1960)	573.853
	LINE 1.	
By R. P. Willingham, 1936; Book B 6706	3	
Adams, 2.0 mi S. of post office; at re tablet stamped "667 K 1900"	esidence of M. R. Heyes's; in SW. corner of foundation; standard	666.592
Reference mark; 57 ft NW. of tablet; o	on boulder; chiseled square	748.94
"N 92 1935" (NGS)		755-763
	LINE 2.	
By J. J. Spahr, 1956; Book AV 480		
U.E., at village of Pharoah; on S. cor	rmer of first concrete step to Blairs store; chiseled square	585 . 49
to house No. 5287; 45 ft WMW. of cen No. of NE. corner fence post of garde	; 2.6 mi E. of Prichard; 51 ft NW. of NW. corner of concrete walk sterline of Y-rd. junction with rd. N. down Gragston Creek; 35 ft mm; 19 ft N. of centerline of EW. rd.; 1 ft S. of fenceline;	
in concrete post; standard tablet st		594.119
Reverence mark, 80 ft RE. of tablet; o	on SE. end of concrete bridge over branch; chiseled square	592.03

LOUISA QUADRANGLE	160 KY_42 M.VA_	38-082-32 4
LIME 2 (Cont'd.)		Feet
U.E., on S. corner of concrete bridge ove	r branch; chiseled square	566.24
Pharoah; 39 ft S. of centerline of Y-rd	reek; along Elijah Creek Road; 2.2 mi WSW. of store at . up Elijah Creek; 69 ft W. of E. end of pipe culvert in concrete post; standard tablet stamped "107 JJS 1956 544"	544-358
Reference mark, 245 ft WSWL of tablet; on	NE. corner of concrete bridge; chiseled square	544.35
U.E., on S. end of W. concrete abutment o	f RR. bridge over Elijah Creek; chiseled square	569-47
U.E., at Prichard; on NWL end of NE. tie	at mail pick—up post; copper mail and washer	568.74
"M 84 1935" (NGS)		554-356
By J. J. Sgahr, 1956; Book AV 480 Note: There are no permanent marks on this	LINE 3. s line in this quadrangle.	
	LINE 4.	
By R. M. Paine, 1959; Book AV 686.		
U.E., chiseled square (Described in line 2	2)	585.49
Pharoah, 1.5 mi SE. of; 28 ft ME. of Y-rd. tree; in concrete post; standard tablet	fork; in line with rd. SW.; 23 ft W. of 20—im. hickory stamped *45 RHP 1959 611*	611.644
Reference mark; 66 ft S. of tablet; on E.	end of concrete tile culvert; chiseled square	609.79
U.E., on SE. end of next to bottom concret	te step to Gragston Church; chiseled square	629.10
Pharoah, 3.1 mi SE. of; at Y-rd. fork; 30 standard tablet stamped M46 RHP 1959 63	ft NW. of rd. NE; 23 ft NE. of rd. NW.; in concrete post;	632.763
Reference mark; 55 ft SE, of tablet; on Si	E. stone headwall of culvert; chiseled square	629.96
U.E., on SW. headwall of concrete culvert	; at entrance to barn; chiseled square	680.01
U.E., on W-shaped No stone headwall of cul	vert; chiseled square	806.63
	ft SW. of Y-rd. fork at saddle; 38 ft ME. of ME. face of ree; in concrete post; standard tablet stamped	906.789

LOUISA QUADRANGLE	160 KY12 W. VA.	R. H. Paine	38-082-32
		1959	,5
	LINE 5.		Feet
By R. H. Paine, 1959; Book AV 686			
U.E., 20 ft S. of rd. on top of large b	oulder; chiseled square		693,46
U.E., 85 ft E. of rd. at curve; at fiel	d rd. NE.; chiseled square	. • •	887.04
Echo, 0.9 mi SW. of junction of U.S. Hi Forks of Hurricane; 70 ft SW. of inte SE. of dirt rd. SW.; in top of large "48 RHP 1959"	rsection of graded rd. and dirt rds	s. N. and SW.; 20 ft	986 .506
Reference mark; 44 ft NE. of tablet; in	NW. base of 8-in. locust tree; rail	l spike	979.51
U.E., 25 ft N. of rd. at foot of hill;	in N. base of power pole; rail spike	1	688.14
Echo, 5.5 mi W. of; 3.6 mi E. of Hubbard NE. of crossroads; 2 ft N. of NW. contablet stamped; "49 RHP 1959 582"	dstown; at Forks of Hurricane; 175 i ner of Big Hurricane Church; in cond	ft SSWL of school; 90 ft crete post; standard	582.415
Reference mark; 160 ft SWs of tablet on	W. end of N. abutment at concrete t	orid ge; ch iseled square	581.23
U.E., on headwall of concrete bridge; c	hiseled square		552.98
Mubbardstown, 1.5 mi E. of; 2.1 mi MW. of rd.; 3 ft W. of power pole; in concre		The second secon	546.594
Reference mark; 42 ft E. of tablet; in	N. base of 24—in. sycamore tree; rai	il spike	548.11
U.E., in S. base of power pole; rail sp.	ike		622.82
Hubbardstown, 0.15 mi M. of RR. station base of semaphore, "S—119"; on iron p			569.858
"P 84 1935" (NGS)			565.662
•	LINE 6.		
By R. H. Paine, 1959; Book AV 686	+		
U.E., 40 ft W. of rd.; in E. base of por	wer pole; rail spike		714.08
Effie, 0.3 mi NE. of; 2.2 mi SW. of Nig 9 ft SE. of NE. corner of abandoned so standard tablet stamped N53 RHP 1959;	chool in center of circular flower		699.507
Reference mark; 560 ft SE. of tablet; 55 culvert; chiseled square	5 ft MW. of Y-rd. fork on E. end of	No headwall of concrete	695.40
U.E., 50 ft S. of Y-rd. on M. end of W.	wheelguard of concrete bridge; chis	seled square	688.08

LOUISA QUADRANGLE 160 KY12 W.VA.	
TOO BIG-15 HOAVS	38-082-32 6
LINE 6 (Cont'da)	Feet
Saltpetre, 4.6 mi E. of post office; 1.6 mi S. of Effie; 170 ft SW. of Y-rd. fork; 105 ft SW. of Branham grocery; in SE. end of NE. stone abutment of bridge over Mill Greek; standard tablet stamped " 54 RMP 1959 650"	6 19 .860
Reference mark; 200 ft NE. of tablet; on NW. and af concrete tile culvert; chiseled square	649.76
U.E., in NW. base of telephone pole; rail spike	625.64
Saltpetre, 1.1 mi E. of, thence 1.5 mi SE. from; 0.15 mi S. of small steel bridge on outside of sharp curve; 24 ft SM. of rd.; 8 ft MM. of 12—in. persimmon tree; in concrete post; standard tablet stamped "55 RHP 1959 644"	643.440
Reference mark; 12 ft WL of tablet in NE. base of 10-in. poplar tree; rail spike	643.02
W.E., 85 ft W. of tablet; in E. base of 10-in. oak tree; rail spike	633.79
Saltpetre, 1.1 mi E. of, thence 0.35 mi SE. from; 160 ft SE. of triangular island of Y-rd. fork; 23 ft SW. of graded rd. SE.; 4 ft SW. of power pole; in concrete post; standard tablet stamped %56 RMP 1959 735% (Reported destroyed, 1971)	735.190
Reference mark; 50 ft ME. of Y-rd. fork; in ME. base of power pole; rail spike	725.37
U.E., on SW. corner of bottom step of Saltpetee Community Church; chiseled square	669.51
"T 45 1935 RESET 1941" (NGS)	584.933
U.E., on SW. side of tracks on E. corner of concrete base of semaphore "Si-308"; chiseled square	585-26
U.E., on E. side of track W. of house; in NW. corner of concrete base of semaphore signal "S=323"; chiseled square	581 .65
U.E., en ME. end of SE. concrete abutment of RR. bridge 759; chiseled square	579.91
"FORT GAY 3 1935 (NGS)	575.186
LINE 7. (Not of Third-Order Accuracy)	
By TVA, 1953	
U.E., 3.5 mi SW. of junction of State Highway 1 with State Highway 3, on T-rd. SW. of State Highway 1; about 200 ft SW. of centerline of T-rd SW.; 12 ft SE. of and 2 ft lower than centerline of rd.; steel member in SE. and of ME. abutment of bridge; in concrete abutment of bridge; painted and of steel channel	606.34
Fallsburg, 3.3 mi W. of Methodist Church, along State Highway 3, thence 2.3 mi SW. along State Highway 1; on property of Charlie Bentley; 60 ft ME. of and 4.5 ft lower than junction of V-rd. ME.; 30 ft SE. of and 2 ft lower than centerline of hwy.; 58 ft ESE. of painted cross on corner of fencepost; 58 ft E. of nail and bottle cap in 8-in. sycamore tree; 12 ft WSW. of painted cross on 12-in. walnut tree; in concrete post; standard tablet stamped "TVA TT 24 NY 1952"	601.88

LOUISA QUADRANGLE	160 KY42 W.VA.	38-082-32 8
LINE 7 (Cont'do)		Feet
Reference mark; 85 ft W. of tablet; e	n concrete slab at SE. corner of barn; painted square	667.69
	LINE 8. (Not of Third-Order Accuracy)	
By TVA, 1953		
TVA II 25 NY 1952 (Described in	line 7)	591.02
Highway 1, on property of Sophie Cl by Sophie Ratliff; 24 ft SE, of and	wrch; 2.1 mi NE. of junction of State Highway 3 and State ay Ratliff; at SW. corner of yard to two-story house occupied 1 ft higher than centerline of hwy.; 5.5 ft SE. of SE. corner 30-in. maple tree; 71 ft NE. of nail and cap in power pole	
across hwy.; in concrete post; stan	dard tablet stamped "26 NY 1952"	571.96
Reference mark; 18 ft H. of tablet; o square	n MW. corner of foundation post of coal house; chiseled	570.08
22 ft SW. of and level with centerl	list Church, along State Highway 3, on property of Bill Elkins; ine of rd.; 80 ft SE. of NE. corner of Jordan's Grocery; on white log house; on NW. end of concrete sidewalk at	567.74
curve in rd. at wooded hollow ME; 2 2 ft SW. of board fence; 8 ft M. ef	wrch, on Fallsburg to Fullers Rd.; on outside of sharp 7 ft ME. of and 1 ft higher than centerline of rd.; M. corner of small barn; 50 ft SE. of painted cross of cost; standard tablet stamped "27 NY 1952"	65 0.15
	m rock enterop at N. edge of drain; chiseled square	651.83
	t rd.; on Fallsburg to Fullers Rd.; about 100 ft E. of cressroad ft higher than centerline of rd.; on N. side of 34—in. oak	836.47
"S 84 1935" (NGS)		574.635

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Boyd and Lawrence Counties, Ky.; Wayne County, W.Va.

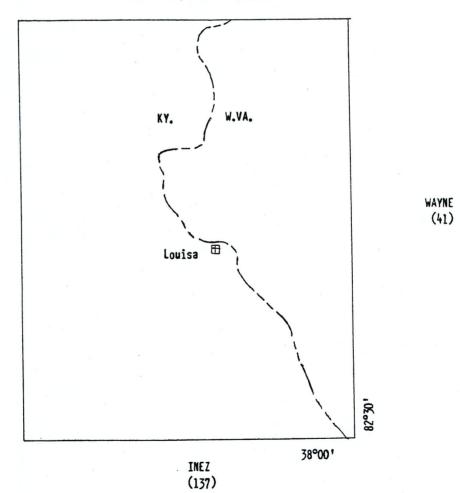
Edition of 1/21/77

PR: CRV/rmm

Plane coordinates are based on Lambert projection, Kentucky, North Zone and West Virginia, South Zone

Only the permanent marks are listed for control classified obsolete and are not shown on sketch

CEREDO (177 KY.-57 W.VA.-2 OHIO)



WEBBVILLE (161)

. DISCLAIMER

We no longer attest to the validity of the positions listed for horizontal control established by transit traverse procedures. This control is now considered OBSOLETE and is included in this list for the purpose of identification only.

INDEX OF PERMANENT MARKS

MARK (USGS)	PAGE NO.
TT 1 TWC 1951	3
IT 2 TWC 1951	3
TVA TT 24 NY 1952	3
TVA TT 25 NY 1952	3
TVA TT 28 NY 1952	3
TVA TT 29 NY 1952	3
TVA TT 30 NY 1952	4

MOLTATE DESCRIPTION PLANE COORDINATES, FEET

LATITUDE 0 1 11 LONGITUDE

The following positions are considered OBSOLETE. To be used only to locate permanent marks in the field.

By T. W. Cayce, 1951; Book AH 270

Mattie: 65 ft N. and 20 ft W. of centerline of rd. at junction of drive SE.; 50 ft W. of NW. corner of church; on side of bank; in concrete post; standard tablet stamped "TT 1 TWC 1951"

Ky. N.) X = 2.433.755 Y = 192,631

38 01 09.29

82 44 39.58

Ledocio: 245 ft W. of junction of Y-rd.; 15 ft N. of centerline of rd.; 145 ft SE. of SE. corner of school: in concrete post; standard tablet stamped "TT 2 TWC 1951"

X = 2.442.069 Y = 196.286

38 01 44.06

82 42 54.94

By M. L. Bennett (TVA), 1952; Fieldbooks 30208, 30209, 30210

Fallsburg, 3.3 mi W. of Methodist Church, along State Highway 3, thence 2.3 mi SW. along State Highway 1; on property of Charlie Bentley; 60 ft NE. of and 4.5 ft lower than junction of Y-rd. NE.; 30 ft SE. of and 2 ft lower than centerline of hwy.; 58 ft ESE. of painted cross on corner of fencepost; 58 ft E. of nail and bottle cap in 8-in. sycamore tree; 12 ft WSW. of painted cross on 12-in. walnut tree; in concrete post; standard tablet stamped "TVA II 24 NY 1952"

X = 2.436.122 Y = 246.634

38 10 02.71

82 43 58.90

Fallsburg, 3.3 mi W. along State Highway 3, at junction of State Highway 1; on Collinsworth's property; about 50 ft SE. of drain crossing hwy. and on NE. side of Highway 3, at field corner; diagonally across and 1 ft above junction from Collinsworth General Store and Service Station; 50.5 ft NE. of painted cross on sign post; 68 ft SE, of nail and bottle cap in 15-in, walnut tree; in concrete post; standard tablet stamped "TVA TT 25 NY 1952"

X = 2.442.380

Y = 251.813

38 10 52.87

82 42 39.45

Fallsburg, 5.4 mi NW. of Methodist Church, along State Highway 3; 2.1 mi NW. of junction of State Highway 1; near S. end of 1000-ft hwy. tangent; 400 ft SE. of large two-story frame house; 56 ft E. of nail and bottle cap in 36-in, oak tree; 36 ft WNW, of junction of I-rd. W.; 16 ft ENE, of nail and bottle cap in 12-in. hickory tree; in S. end of W. concrete headwall of culvert; standard tablet stamped "IVA TI 28 NY 1952"

X = 2.435.421

Y = 258,221

38 11 57.35

82 44 05.28

Fallsburg, 7.5 mi NW. of Methodist Church, along State Highway 3; on property of John Hall; 28 ft SE. of centerline of hwy.; 23 ft W. of nail and bottle cap in 5-in. crab apple tree; 6 ft ME. of nail and bottle cap in 16-in. sycamore tree; 4 ft MW. of fence; in concrete post; standard tablet stamped "TVA TI 29 NY 1952"

X = 2.437.628 Y = 267.931

38 13 32.97

82 43 35.62

MOLTATS

DESCRIPTION PLANE COORDINATES, FEET

LATITUDE

LONGITUDE

OBSOLETE MARKS (Cont'd.)

Fallsburg, 9.4 mi NW. of Methodist Church, along State Highway 3; 120 ft NE. of frame house; 70 ft W. of log barn; 32 ft E. of nail and bottle cap in power pole; 16 ft SW. of junction of T-rd. E.; 14 ft ESE. of nail and bottle cap in fence post; in N. end of W. concrete headwall of box culvert; standard tablet stamped "TVA TI 30 NY 1952"

Ky. N)

X = 2,444,334

Y = 273,322

38 14 25.15

82 42 10.46

ASSEM AND INDER FILE COPY

KY 160 Louisa

State: Kentucky

Station: BILLIPS

County: Lawrence

Description:

Co.

Observer: Ky. Byproducts Coal Year: 1929 Datum: Prelim. 1927 N.A.D.

PRELIMINARY

On a high knob on ridge between Levisa Fork and Three Mile Creek and about 1 mile south of Wallbridge, Ky. This station is approximately in property line between Mary Ellen See and Taylor Billips.

Station Mark: - Houston Triangulation Survey tablet cemented in a 9^n x 9^n x 30^n stone set on end and projecting above surface 3".

Reference Mark 1: brass tack in 8-in. black oak tree, 40.74 ft. from station in true azimuth 42°03'

Reference Mark 2: lead plug and tack in corner stone, 17.01 ft. from station in true azimuth 332°58'

X = 2907554

[Latitude	38 o3 30 . 746	Longitude 82 3	35 51.456 j
To Station—	Azimuth	Back Azimuth	Feet Distance
Chapman Montgomery Wallace Rock	6 17 20.9 269 50 06.7 328 06 20.7	186 17 09.7 89 53 34.5 148 07 55.5	13356.0 26964.3 23318.5
Form 9-107a		•	

LOUISA GD

Station: CHAPMAN

County: Lawrence

State: Kentucky

Observer: Ky. By Products Coal Year: 1929 Datum: Prelim. 1927 N.A.D. Company

Description:

2/18/54 mcs

PRELIMINARY

Lawrence County, Ky. - On a high knob on ridge between Millseat Hollow and Ward Hollow of Griffith Creek. Station is best reached by going up Millseat Hollow from residence of Fred Perry.

Station mark - Houston Triangulation Survey tablet cemented in a 7- by 12- by 30-in. stone set on end and projecting 3 in. above surface.

Reference mark No. 1 - Brass tack in 10-in. black-oak tree 40.48 ft. from station in true azimuth 55°42'

Reference mark No. 2 - Brass tack in root of 10-in. leaning black-oak tree 50.85 ft. from station in true azimuth 123°31'

$$X = 2,906,535$$

$$Y = 629,969$$

[Latitude 3	38 01 19.505	Longitude 82 3	o 09.739
To Station—	Azimuth	Back Azimuth	Distance
Hogback Wallace Rock Corncob	266 33 45.8 295 19 14.0 349 30 33.7	86 34 54.6 115 21 00.1 169 31 04.7	Miles Feet 8984.8 15248.8 22109.5

160

Station: FORT HILL

County: Lawrence

State:Kentucky

Observer: Ky . Byproducts Coal Year:1929 Datum: Prelim. 1927 N.A.D.

Description:

Co.

PRELIMINARY

LOUISA OD.

on central and highest point of the old fort on hill south of Louisa.

Station Mark: - Houston Triangulation Survey tablet cemented in a concrete block 12" x 12" x 27" and set on bed rock on end.

Reference Mark 1: cross mark in concrete wall of old reservoir, 51.9 ft. from station in true azimuth 116°02'

Reference Mark 2: cross mark in concrete wall of old reservoir, 101.0 ft. from station in true azimuth 311°09:

DESTROYED

בו ישוונים han her

X = 2903327

[Latitude 3	8 06 36.231	Longitude 82 3	36 36.540 _]	
To Station—	Azimuth	Back Azimuth	Feet Dista	ince
Montgomery	301 25 43.5	121 29 39.2	35826.3	Miles
Saltpeter	307 18 0 9.9	127 19 41.2	14871.8	
O'Brien	342 49 51.2	162 50 31.0	17473.2	
Chapman	356 10 12.7	176 10 29.2	32109.9	

Station:

HOGBACK

County: Lawrence

State: Kentucky

Observer: Ky. By Products CoalYear:

1929Datum: Prelim. 1927 N.A.D.

Description: 2/19/54 mcs

Company

PRELIMINARY

Lawrence County, Ky. - On a high knob known locally as Hogback Knob and is at head of the second lefthand branch off the Long Fork of Donithon Branch. It can best be reached by following a path W. of the residence of Harrison Lambert.

Station Mark - Set stone with lead plug and brass tack.

X = 2915480

Y = 630807

otit...d=38 01 0/1 810

[Latitude3	8 01 24.619	Longitude 82 34	17.064
To Station—	Azimuth	Back Azimuth	Distance
	0 / //	0 / #	Feet . Miles
Corncob Chapman Wallace Rock	12 31 39.7 85 34 54.8 325 43 30.1	192 31 01.5 266 33 45.8 145 44 07.2	22820.9 8984.8 8546.4

Louisa State: W. Va.

Station: MONTGOMERY

County: Wayne

Year: 1929 Datum: Prelim. 1927

Observer: Ky . Byproducts Coal Description:

On a nigh knob about a mile south from forks of Mill Creek, on south end of a cleared knob and S. 25° W. about 1000 ft. from residence of George Montgomery.

Station Mark: - Houston Triangulation Survey tablet cemented in solid rock.

Reference Mark 1: cross cut in solid rock, 33.43 ft. from station in true azimuth 217°521

Reference Mark 2: cross cut in solid rock, 41.05 ft. from station in true azimuth 260°44°

X = 2934501

Y = 644264

[Latitude 3	88 03 31.379	Longitude 82 3	0 14.334]	
To Station—	Azimuth	Back Azimuth	Feet Dista	nce
Wallace Rock Wells	36 26 22.2 92 05 26.1	216 24 29.4 272 03 12.4	x %x n **s 24687.6 17367.4	Miles
Saltpeter	117 21 22.7	297 18 58.3	21083.2	
Fort Hill	121 29 39.2	301 25 43.5	35826.3	
			-	

U. S. GOVERNMENT PRINTING OFFICE 16-65872-1

LOUISE OD.

Station: OBRIEN

County: Lawrence

State: Kentucky

Observer: Ky . Byproducts Coal Description:

Year 1929 Datum: Prelim. 1927 N.A.D.

PRELIMINARY

On a high knob on ridge between Three Mile Creek and Levisa Fork of Big Sandy River. On or near line of the Julia O'Brien lease.

Station Mark: - Houston Triangulation Survey tablet cemented in a set stone.

Reference Mark 1: cross in head of 30d nail, 3 ft. above ground in 36-in. white oak tree, 33.27 ft. from station in true azimuth 42°56!

Reference Mark 2: cross in head of 30d nail, 4 ft. above ground in 9-in. black oak tree, 33.04 ft. from station in true azimuth 336°26

X = 2909038

	•		-				•	1	a	
[Latitude	38 03	51	.187			Long	gitude 82	35	32.031	
To Station—		Azi	muth				zimuth		Feet Dista	ance
	۰	,		W	0	,	-		XXXXXXXXXX	Miles
Fort Hill	162	50	31.0		342	49	51.2		17473.2	4
Saltpeter	220	·59	07.1		40	5 9	58.6		10177.7	- 4
Wells	279	39	26.3		99	40	28.4		8169.1	*
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			* *		a a					, • · · · · · · · · · · · · · · · · · ·
									ē	

Louisa Qa

Station: SALTPETER

County: Wayne

State: W Va.

Observer: Ky . Byproducts Coal

Year: 1929 Datum: Prelim. 1927

Description:

Co.

On a high knob between Billips Branch and Sperry Branch of Tug River, on property of Harlan Bartram.

Station Mark: - Houston Triangulation Survey tablet cemented in a 7" x 12" x 24" stone set on end in ground.

Reference Mark 1: cross in head of 20d nail in 6-in. locust stump, 46.04 ft. from station in true azimuth $7^{\circ}43^{\circ}$

Reference Mark 2: Apex of roof of water tank at Louisa, Ky., in true azimuth 131°02'55"

Reference Mark 3: cross in head of 20d nail 6in. above ground in 6-in. locust tree, 35.29 ft. from station in true azimuth 214°40:

X = 2915452

[Latitude 3	8 05 07.138	Longitude 82 34 68.548]			
To Station-	Azimuth	Back Azimuth	Feet Distance		
Chapmen O'Brien Fort Hill Montgomery Wells	22 50 22.7 40 59 56.6 127 19 41.2 297 18 58.3 351 21 32.3	202 49 08.0 220 59 07.1 307 18 09.9 117 21 22.7 171 21 43.0	24990.1 10177.7 14871.8 21083.2 9157.6	Miles	
			-		
Form 9-107a					

Station: WALLACE ROCK

County: Lawrence

State: Kentucky

Observer: Ky. By Products Coalyear: 1929 Datum: Description:

Company

Prelim. 1927 N.A.D.

2/19/54 mcs

Lawrence County, Ky. - On a high knob at head of Maynard Branch and Donithon Branch and on ridge between said branches and Rockcastle Creek, and near residence of Millard Wallace. Locally known as Wallace Rock.

Station Mark - Houston Triangulation Survey tablet cemented in a 6- by 13- by 36-in. stone set on end and projecting 7 in. above surface.

Reference Mark No. 1 - Cross mark on head of 20d nail in root of 12-in. leaning red-oak tree 62.78 ft. from station in true azimuth 13°19'

Reference Mark No. 2 - Cross mark on head of 20d nail 7 ft. above ground in 16-in. hickory tree 36.68 ft. from station in true azimuth 257°03'

X = 2,920,528

Y = 623,910

Yoursa

[Latitude 3	8 00 14.997	Longitude 82 33 17.533			
To Station—	Azimuth	Back Azimuth	Distance		
Corncob Chapman Hogback Blankenship Hammond	32 41 54.2 115 21 00.1 145 44 07.2 323 37 19.0 342 23 42.4	212 40 39.2 295 19 14.0 325 43 30.1 143 39 00.1 162 24 10.2	Miles 18078.2 15248.8 8546.4 22177.5 11946.1		
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LOUISA DO WELLS OF

Station: WELLS

County: Lawrence

State: Kentucky

Observer: Ky . Byproducts Coal

Year: 1929 Datum: Prelim. 1927 N.A.D.

Description:

Co.

On a high knob about 100 yards north of residence of Henderson Wells, opposite Saltpeter, W.Va.

Station Mark: - Houston Triangulation Survey tablet cemented in a 7" x 12" x 24" stone set on end flush with surface.

Reference Mark 1: tack in root of 12-in. pine tree (corner of property of Henderson Wells and Jake Workman, 22.57 ft. from station in true azimuth 94°03'

Reference Mark 2: tack in 8-in. white oak tree in fence line, 48.60 ft. from the station in true azimuth 308°03'

X = 2917133

Y = 644303

[Latitude	38 03 37.611	Longitude 82	33 51.338 j		
To Station—	Azimuth	Back Azimuth	Feet Distance		
	0 / "	0 / //	XXXXXXX	Miles	
O'Brien	99 40 28.4	279 39 26.3	8169.1		
Saltpeter	171 21 43.0	351 21 32.3	9157.6		
Montgomery	272 03 12.4	92 05 26.1	17367.4	,	
		*			

Form 9-107a